

PICK-RESISTANT WAFER TUMBLER LOCK WITH SIDEBARS

Abstract

The invention provides a pick-resistant locking mechanism with wafer tumblers, sidebars and an interchangeable cylinder that allows re-keying of the lock. The sidebars have projections with beveled sides that engage with cavities in the lock shell when rotational torque is applied to the lock in the absence of the correct key. A sidebar of the lock contacts two, nonadjacent wafer tumblers. The wafer tumblers have indentations that engage cavities in the lock shell when rotational torque is applied during picking of the lock. Tolerance between sidebars and the lock shell is less than the tolerance between tumblers and the lock shell. The tumbler springs are not accessible from the keyway of the lock and are more powerful than the sidebar springs